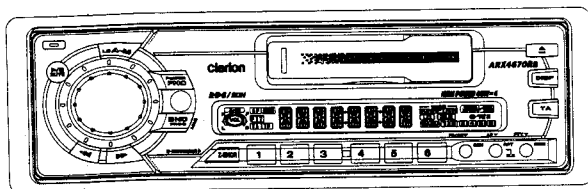
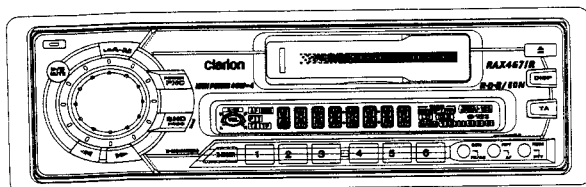


(ARX4670R)



(ARX4670RB)



(RAX4671R)

RDS-EON/FM/MW/LW RADIO CASSETTE COMBINATION WITH CD CHANGER CONTROL

Model **ARX4670R**
(PE-1682E-A)

Model **ARX4670RB**
(PE-1682E-B)

Model **RAX4671R**
(PE-1682E-C)

■ SPECIFICATIONS

Radio section

Tuning System: PLL synthesizer tuner
Receiving Frequencies:
FM: 87.5 to 108 MHz (0.05 MHz steps)
MW: 531 to 1,602 kHz (9 kHz steps)
LW: 153 to 279 kHz (3 kHz steps)

Tape Deck section

Cassette Type: Compact Audio Cassette
Playback System: Auto reversing 4-track, 2-channel
Setero cassette tape playback(m-
onastral playback also possible)
Frequency response: 30 to 20 kHz (Metal)
Wow & Flutter (WRMS): 0.08%
Signal to noise ratio: 58 dB (Metal)
Tape Types: Metal, Chrome, Normal

General

Max. Power Output: 40W × 4
Effective Power Output: 14W × 4

Power supply voltage: 14V DC (10.8V to 15.6V
allowable), negative ground
Power Consumption: Less than 10 A
Speaker impedance: 4 Ω (4 Ω to 8 Ω allowable)
Line Output: 1.8 V (with CD changer 1kHz, 10k Ω)
Auto Antenna Rated Current: 0.5 A or less
Dimensions(mm): 178(W) × 50(H) × 152(D)
Weight: 1.3 kg
※Specifications comply with EIA Standards.
※Specifications and design are subject to change wi-
thout notice for further improvement.

■ NOTE

※We cannot supply PWB with component parts in p-
rinciple. When a circuit on PWB has failure, please
repair it by component parts base. Parts which are
not mentioned in service manual are not supplied.

■ COMPONENTS

PE-1682E-A/E-B/E-C

Main unit		1
Outescutcheon	370-5813-00	1
Mounting bracket	300-7745-00	1
Part's bag		
Removal key	331-2548-00	2
Lead holder	335-0833-01	1
Spacer	345-3651-01	1
Special screw	716-0726-01	1
A-lead	850-6681-00	1
Special screw	716-1862-00	4
Taptight	716-1871-01	4

■ FEATURES

- 1.RDS-Pro Receiver with Controller for MD or CD Changer (6/12 disc)
- 2.Full Logic Auto Reverse Cassette Deck with Hard Permalloy Head.
- 3.High Power 4×40W Max./2-Channel RCA Line Level Output.

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1.Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability(PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2.Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3.Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for

safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4.Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5.Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

■ NOTES OF ISO CONNECTOR

1. For VW and Audi vehicles, change the position of fuse installation as shown on the diagram. (Figure 1)

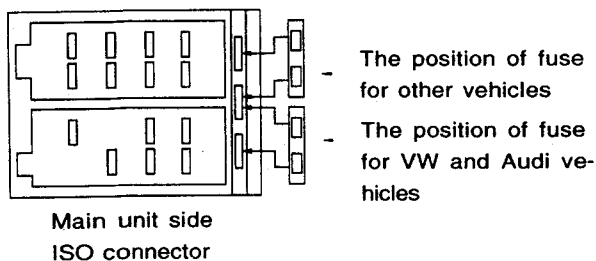


Figure 1

2. The lead include with the unit must be connected to the specified position of the vehicle's ISO connector in order to use the "triggered audio mute for cellular telephones" function. (Figure 2)

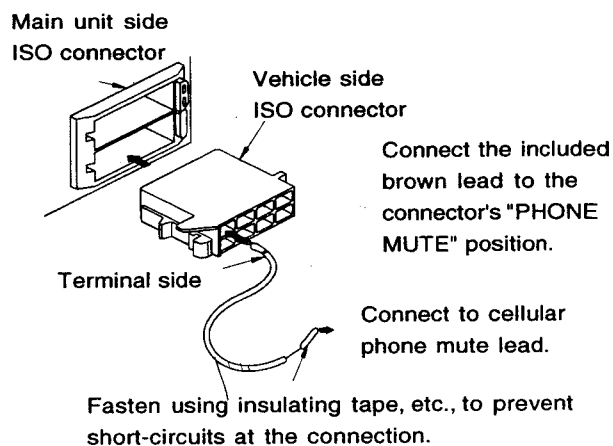


Figure 2

■ TROUBLESHOOTING

Symptom	Cause	Measure
Power does not turn on. (or no sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage. If the fuse blows again, contact your store of purchase.
	Connections are improper.	Read the attached "Installation/Wire Connection Guide" once again and wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc. to clean the head.
No sound while unit can be operated.	Power ANT lead is shorted to the ground.	Turn the unit off, first. Remove all connecting wires from the power ANT lead, and turn the unit on, then re-connect a wire one by one to the power ANT lead. When sound is muted again, check the unit with a wire connected last.

■ ERROR DISPLAYS

To protect the system, this unit has been equipped with self diagnostic functions. If a fault arises, a warning is issued by various error displays. Follow the corrective measures and remove the fault.

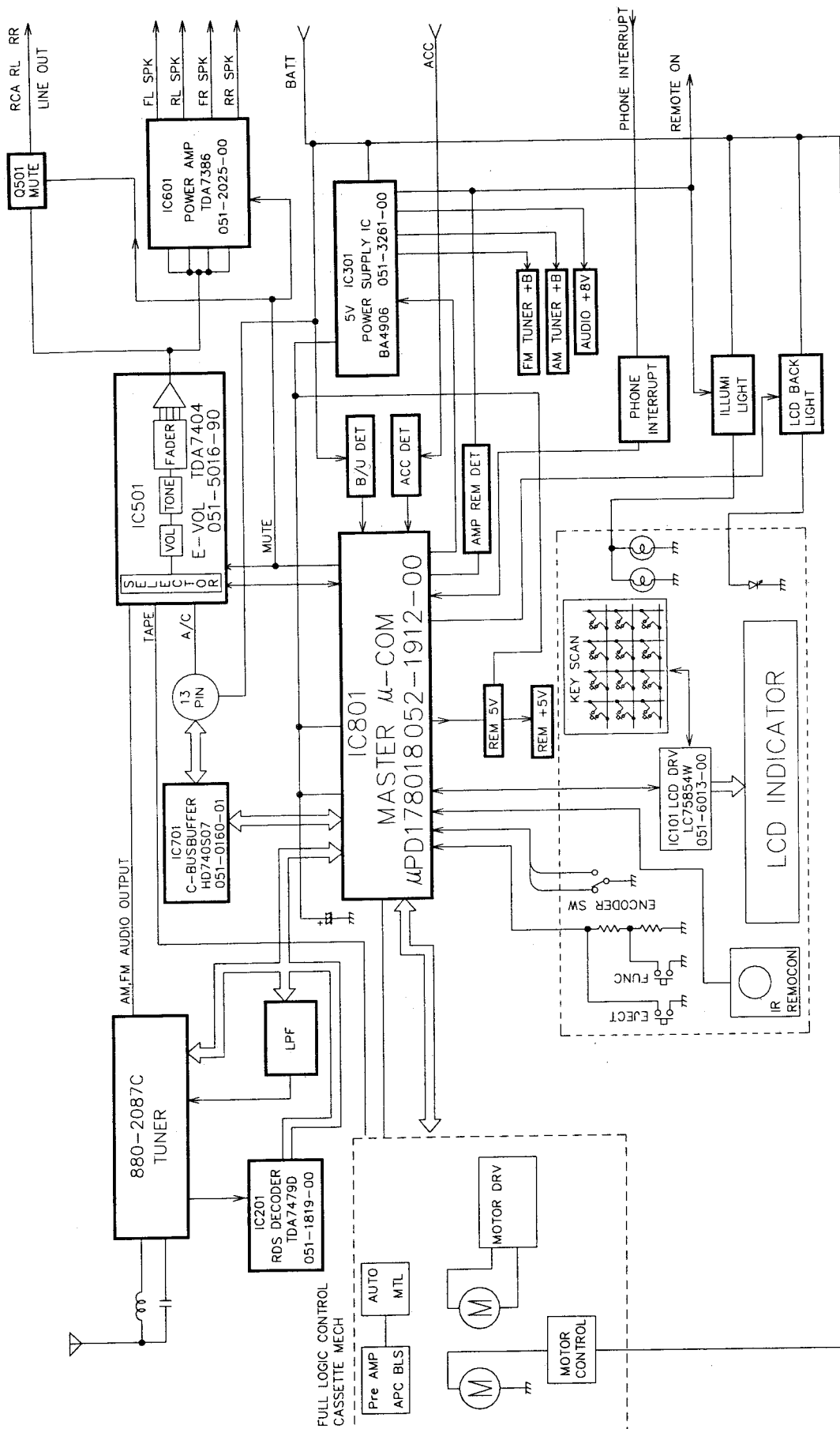
Error Display	Corrective Measure
	This indicates that a problem has occurred with the CD/MD changer's mechanism (disc cannot be changed or ejected, etc.). → The CD/MD changer mechanism is likely damaged. Contact your store of purchase.
	This indicates that the pickup is out of focus during playback due to scratches on the disc, etc.
	This indicates that the CD's/MD's TOC (table of contents) cannot be read, for example because the selected disc is upside-down.
	This is displayed if a cassette tape gets stuck during loading or ejecting. → Remove the cause for which the cassette tape got stuck.

■ ADJUSTMENT

Tape mechanism section 930-4311-01

Item	Procedure	Measuring instrument
Tape speed	1. Insert a wow speed tape and adjust speed-VR of main motor so that a reading of wow flutter meter is 2955-----3045Hz (3000 ± 45Hz).	Wow speed tape Wow flutter meter

■ BLOCK DIAGRAM



■ EXPLANATION OF IC:

■ μ PD178018AGC-557-3B9 052-1912-01 MASTER MICRO COMPUTER

1. Outward Form : 80 pins QFP

2. Terminal Description

pin 1 : KEY-A/D : I : FUNC/EJECT/DCP detection terminal for A/D converter

pin 2 : RDS S_METER : I : RDS S_METER detection terminal for A/D converter

pin 3 : RDS_NOISE : I : RDS NOISE detection terminal for A/D converter

pin 4 : VOL CW : I : Use for rolling volume

pin 5 : VOL CCW : I : Use for rolling volume

pin 6 : NOISE_DISCHG : O : Noise is off

pin 7 : LCD_SI : I : Serial data communication line to LCD Control IC

pin 8 : LCD_SO : O : Serial data communication line to LCD Control IC

pin 9 : LCD_SCK : O : Serial data communication line to LCD Control IC

pin 10 : LCD_CE : O : Serial data communication line to LCD Control IC

pin 11 : C-BUS SRQ : I : "C-BUS" Serial data communication line

pin 12 : C-BUS_SI : I : "C-BUS" Serial data communication line

pin 13 : C-BUS_SO : O : "C-BUS" Serial data communication line

pin 14 : C-BUS_SCK : O : "C-BUS" Serial data communication line

pin 15 : NC : O : NC

pin 16 : SYS_MUTE : O : Output mute. While it is "LOW", mute is "ON"

pin 17 : REM + 5 : O : REM 5V power supply control terminal

pin 18 : STAND BY : O : Power supply IC control terminal

pin 19 : E_VOL CLK : O : E_VOL use

pin 20 : E_VOL DATA : O : E_VOL use

pin 21 : GND : — : GND

pin 22 : VDD : — : VDD

pin 23 : MODE1 FM/AM : O : While "HI"=FM and "LO"=AM, power supply is "ON"

pin 24 : MODE2 ANT : O : While "HI"=ANT, power supply is "ON"

pin 25 : MUTE SPEED : O : During RDS follow-up motion, mute speed at "LO"; usually it is at "HI"

pin 26 : IF_REQ : O : During seeking, it is at "HI"; while detecting RDS SD, it is at "LO"

pin 27 : ST : O : Usually input "ST" lights at "LO"; always at "HI" during seeking

pin 28 : AM IF CNT : I : AM IF counter

pin 29 : FM IF CNT : I : FM IF counter

pin 30 : VDD : — : VDD

pin 31 : FM OSC : I : FM VCO input terminal

pin 32 : AM OSC : I : AM VCO input terminal

pin 33 : GND : — : GND

pin 34 : AM/FM EO : O : AM/FM PLL VT

pin 35 : AM/FM FO : O : AM/FM PLL VT

pin 36 : GND : — : GND

pin 37 : NC : I : GND

pin 38 : NC : I : GND

pin 39 : SD/ST_IND : I : While AM/FM SD IN/FM ST is "0", "ST" lights

pin 40 : RDS MUTE : O : During RDS follow-up motion, mute is at "HI"; usually it is at "LO"

pin 41 : AM_DX/LO : O : AM DX/LO output terminal, LOCAL is at "HI"

pin 42 : AMP REM_DET : I : While protecting circuit motion, it is at "HI"

pin 43 : SLAVE ON : I : NC

pin 44 : MASTER_ON : O : NC

pin 45 : NC : O : NC

pin 46 : FM_DX/LO : O : FM DX/LO output terminal, LOCAL is at "HI"

pin 47 : M-MOTOR : O : Outputs signal terminal for MECH MOTOR

pin 48 : MECH-ON : O : Outputs mechanism ON signal

pin 49 : PHONE AUDIO : I : GND.

pin 50 : NC : I : GND.

pin 51 : REEL-PULSE : I : Inputs Reel pulse signal input.

pin 52 : NC : I : GND.

pin 53 : STAND-BY-SW : I : STAND BY POSITION SW.

pin 54 : MODE-SW : I : MODE SW

pin 55 : NC : I : GND.

pin 56 : TAPE-IN : I : Tape loading start detection terminal.

pin 57 : APC-SENS(MUTE) : O : Outputs APC sensitivity switching signal. Outputs LOW in play.

pin 58 : APC-DET : I : Inputs "HI" in playing unrecorded part.

pin 59 : NC : I : GND.

pin 60 : FWD/REV : O : Outputs LOW in FORWARD.

pin 61 : P 2 : O : Outputs for cassette mechanism.

pin 62 : P 1 : O : Outputs motors forward/reverse control.

pin 63 : BNR-B/C : O : NC.

pin 64 : BNR-ON : I : GND.

pin 65 : L/M : O : LW="HI", MW="LO"

pin 66 : RDS DATA : I : RDS data input terminal

pin 67 : RDS CLK : I : RDS clock input terminal

pin 68 : B/U DET : I : B/U detecting terminal

pin 69 : ACC IN : I : ACC detecting terminal

pin 70 : REMOCON : I : Remote control

pin 71 : KEY-INT : I : To 1 pin

pin 72 : SBSY : I : Connected to CD MECH

pin 73 : PHONE-INT : I : Phone interrupted

pin 74 : CPU-REG : — : 0.047 μ F to GND

pin 75 : GND : — : GND

pin 76 : X-OUT : — : X-TAL 4.5MHz

pin 77 : X-IN : — : X-TAL 4.5MHz

pin 78 : OSC-REG : — : 0.047 μ F to GND

pin 79 : VDD : — : VDD

pin 80 : RESET : I : System reset with 22K to 68 pin

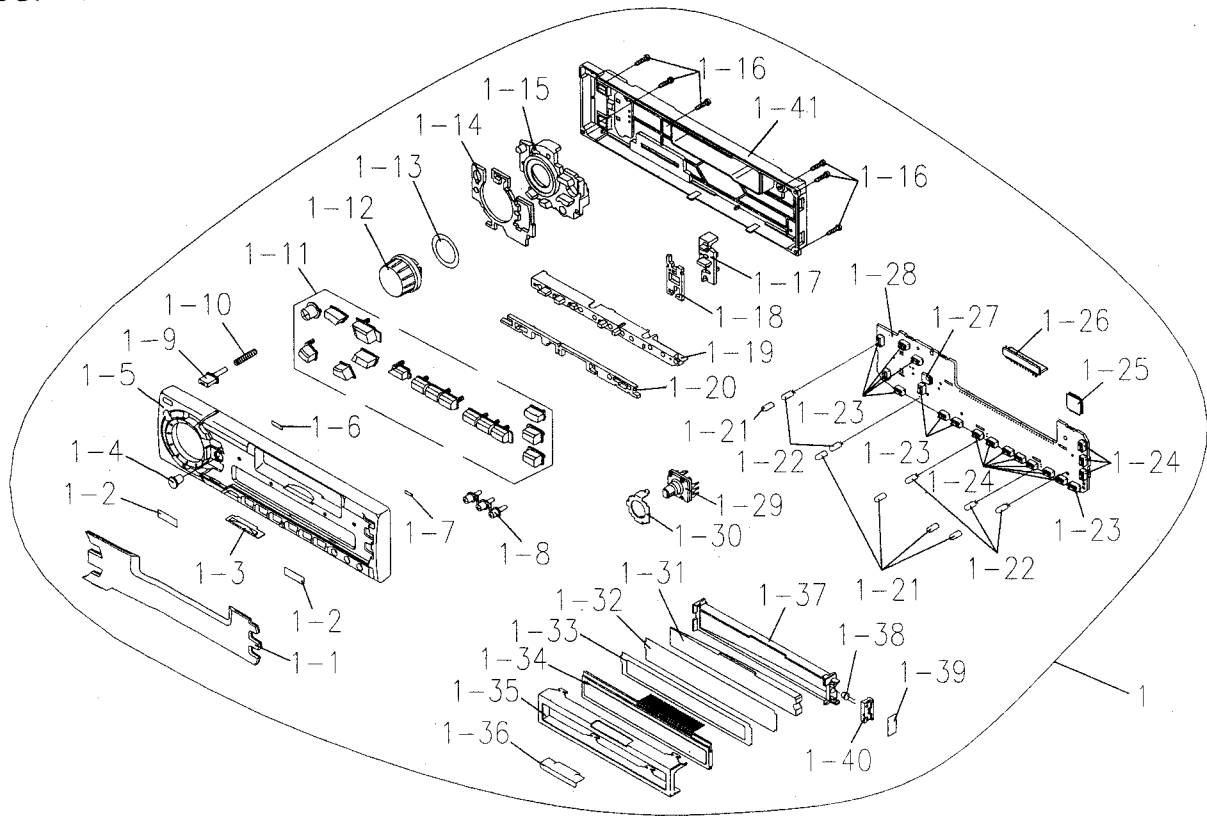
CD MECH : LOADING MOTOR CONTROL

PIN No	NAME	LOADING	EJECT	BREAK	STOP
51	MCW	H	L	H	L
52	MCCW	L	H	H	L

■ EXPLODED VIEW · PATRS LIST:

● ARX4670R/ARX4670RB(PE-1682E-A/E-B)

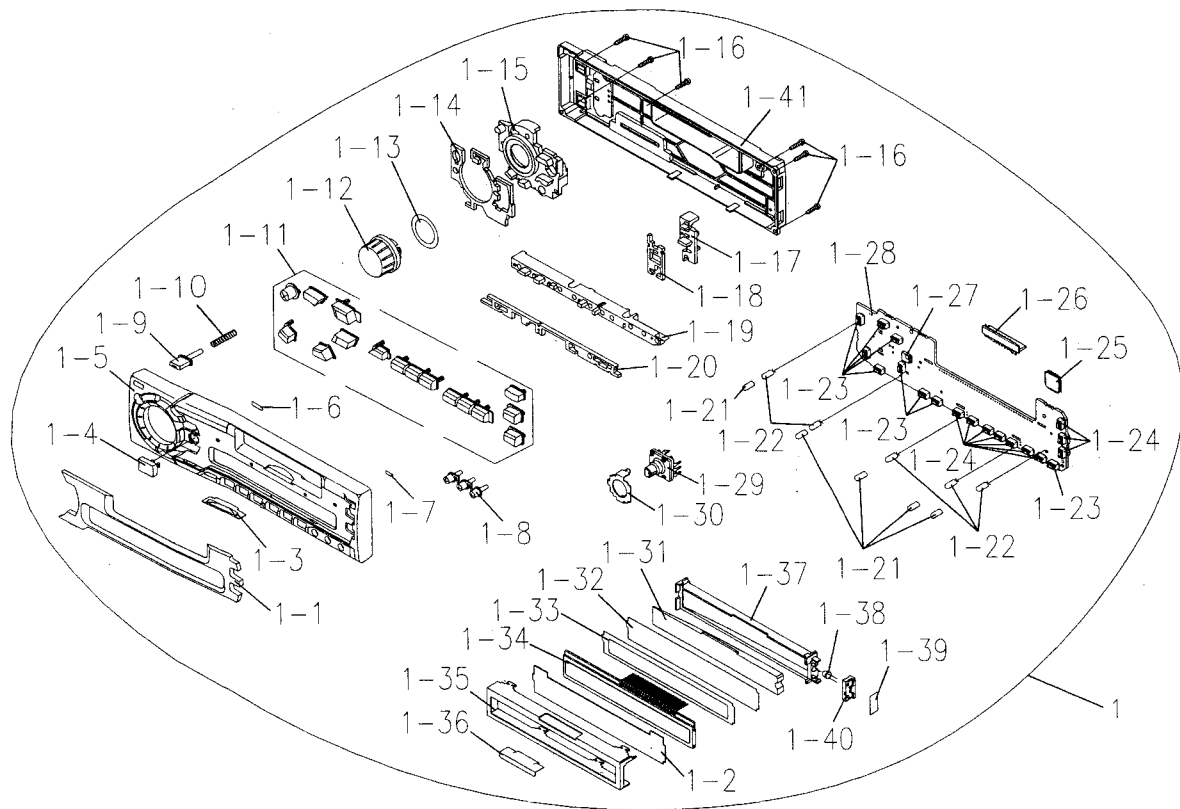
DCP Section



NO.	PARTS NO.	DESCRIPTION	QTY
1	DCP-187-700	DCP ASSY(PE-1682E-A)	1
	DCP-189-700	DCP ASSY(PE-1682E-B)	1
1-1	373-0924-00	DIAL-COVER(PE-1682E-A)	1
	373-0924-01	DIAL-COVER(PE-1682E-B)	1
1-2	347-6207-20	DOUBLE FACE	2
1-3	335-6255-00	ILLUMIPLATE	1
1-4	335-6236-00	IR-FILTER	1
1-5	370-5860-00	ESCUTCHEON	1
1-6	347-6193-20	SHADE	1
1-7	347-6192-20	SHADE	1
1-8	382-5683-00	BUTTON	1
1-9	382-5685-00	BUTTON	1
1-10	750-6699-20	SPRING	1
1-11	947-0502-00	BUTTON-ASSY	1
1-12	380-5467-01	KNOB	1
1-13	347-6206-20	SHADE	4
1-14	345-8406-20	SPONGE	1
1-15	335-6221-00	ILLUMIPLATE	1
1-16	716-1721-00	P-TIGHT SCREW	6
1-17	335-6219-00	ILLUMIPLATE	1
1-18	345-8404-20	SPONGE	1
1-19	335-6220-00	ILLUMIPLATE	1
1-20	345-8405-20	SPONGE	1

NO.	PARTS NO.	DESCRIPTION	QTY
1-21	345-4441-37	LAMP CAP(PE-1682E-A)	5
	345-4441-86	LAMP CAP(PE-1682E-B)	5
1-22	017-0444-00	PILOT LAMP	5
1-23	013-6305-50	SWITCH	9
1-24	013-6001-50	SWITCH	10
1-25	051-6013-00	IC	1
1-26	076-0615-00	PLUG	1
1-27	060-4008-00	IR-RECEIVE	1
1-28	039-1623-20	SWITCH PWB (WITHOUT COMPONENT)	1
1-29	016-9900-66	ROTARY ENCODER	1
1-30	331-2814-00	JOG-SW HOLDER	1
1-31	335-6225-00	LCD ILLUMI	1
1-32	347-6170-20	FILM	1
1-33	347-6171-20	SHADE	1
1-34	379-1175-41	INDICATOR	1
1-35	331-2810-00	LCD COVER	1
1-36	347-6230-20	SHADE	1
1-37	335-6223-00	LCD HOLDER	1
1-38	001-7046-00	DIODE	1
1-39	347-6191-20	SHADE	1
1-40	335-6227-00	LED HOLDER	1
1-41	335-6202-00	REAR-CVR	1

● RAX4671R(PE-1682E-C)
DCP Section

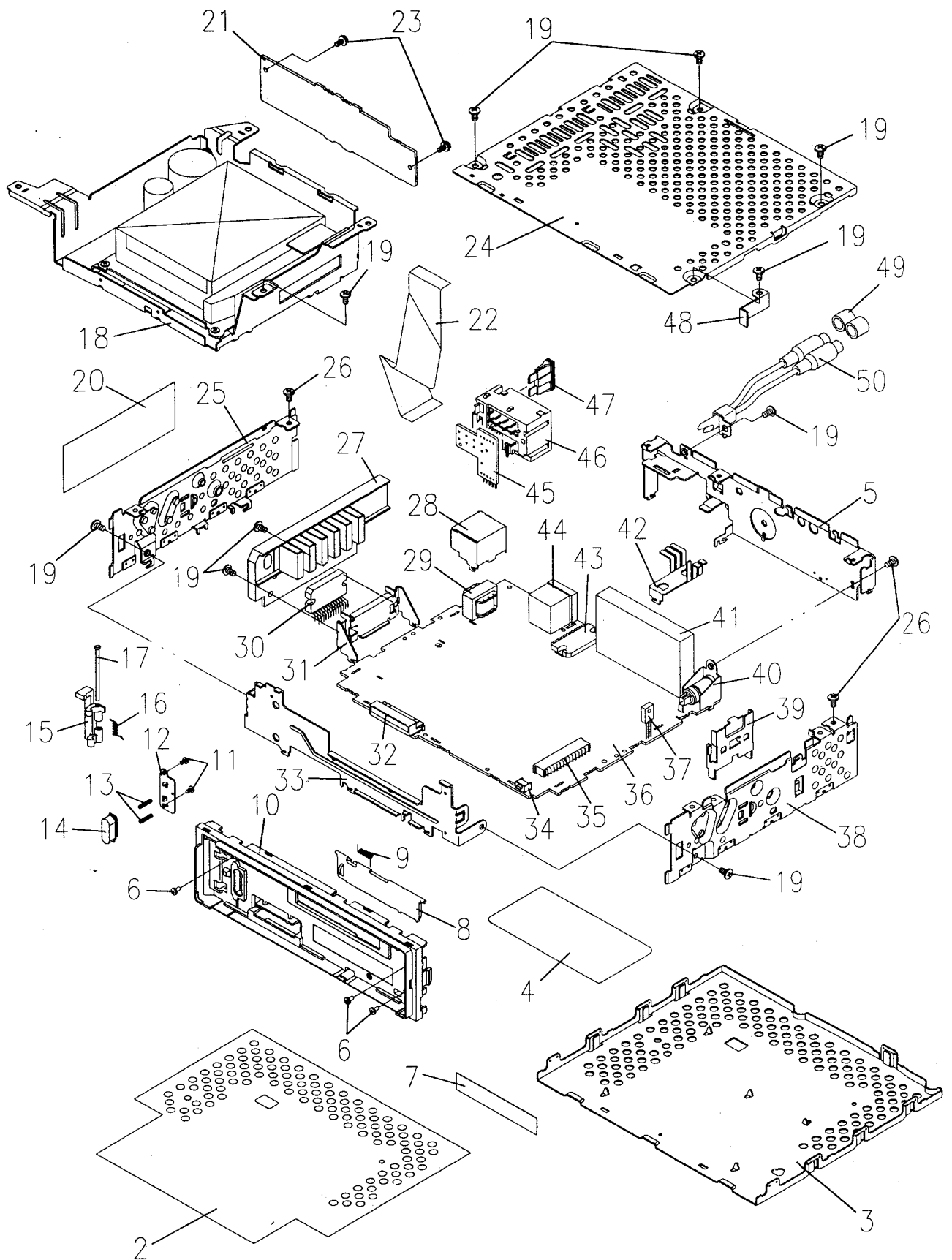


NO.	PARTS NO.	DESCRIPTION	QTY
1	DCP-190-700	DCP ASSY	1
1-1	373-0921-01	DIAL-COVER	1
1-2	347-6165-00	SURGE PROTECT	1
1-3	335-6255-00	ILLUMIPLATE	1
1-4	335-6203-00	IR-FILTER	1
1-5	370-5860-01	ESCUTCHEON	1
1-6	347-6193-20	SHADE	1
1-7	347-6192-20	SHADE	1
1-8	382-5683-00	BUTTON	1
1-9	382-5685-00	BUTTON	1
1-10	750-6699-20	SPRING	1
1-11	947-0502-00	BUTTON-ASSY	1
1-12	380-5467-01	KNOB	1
1-13	347-6206-20	SHADE	1
1-14	345-8406-20	SPONGE	1
1-15	335-6221-00	ILLUMIPLATE	1
1-16	716-1721-00	P-TIGHT SCREW	6
1-17	335-6219-00	ILLUMIPLATE	1
1-18	345-8404-20	SPONGE	1
1-19	335-6220-00	ILLUMIPLATE	1
1-20	345-8405-20	SPONGE	1
1-21	345-4441-37	LAMP CAP	5

NO.	PARTS NO.	DESCRIPTION	QTY
1-22	017-0444-00	PILOT LAMP	5
1-23	013-6305-50	SWITCH	9
1-24	013-6001-50	SWITCH	10
1-25	051-6013-00	IC	1
1-26	076-0615-00	PLUG	1
1-27	060-4008-00	IR-RECEIVE	1
1-28	039-1632-20	SWITCH PWB (WITHOUT COMPONENT)	1
1-29	016-9900-66	ROTRAY ENCODER	1
1-30	331-2814-00	JOG-SW HOLDER	1
1-31	335-6225-00	LCD ILLUMI	1
1-32	347-6170-20	FILM	1
1-33	347-6171-20	SHADE	1
1-34	379-1175-41	INDICATOR	1
1-35	331-2810-00	LCD COVER	1
1-36	347-6230-20	SHADE	1
1-37	335-6223-00	LCD HOLDER	1
1-38	001-7046-00	DIODE	1
1-39	347-6191-20	SHADE	1
1-40	335-6227-00	LED HOLDER	1
1-41	335-6202-00	REAR-CVR	1

● ARX4670R(PE-1682E-A)

Main Section

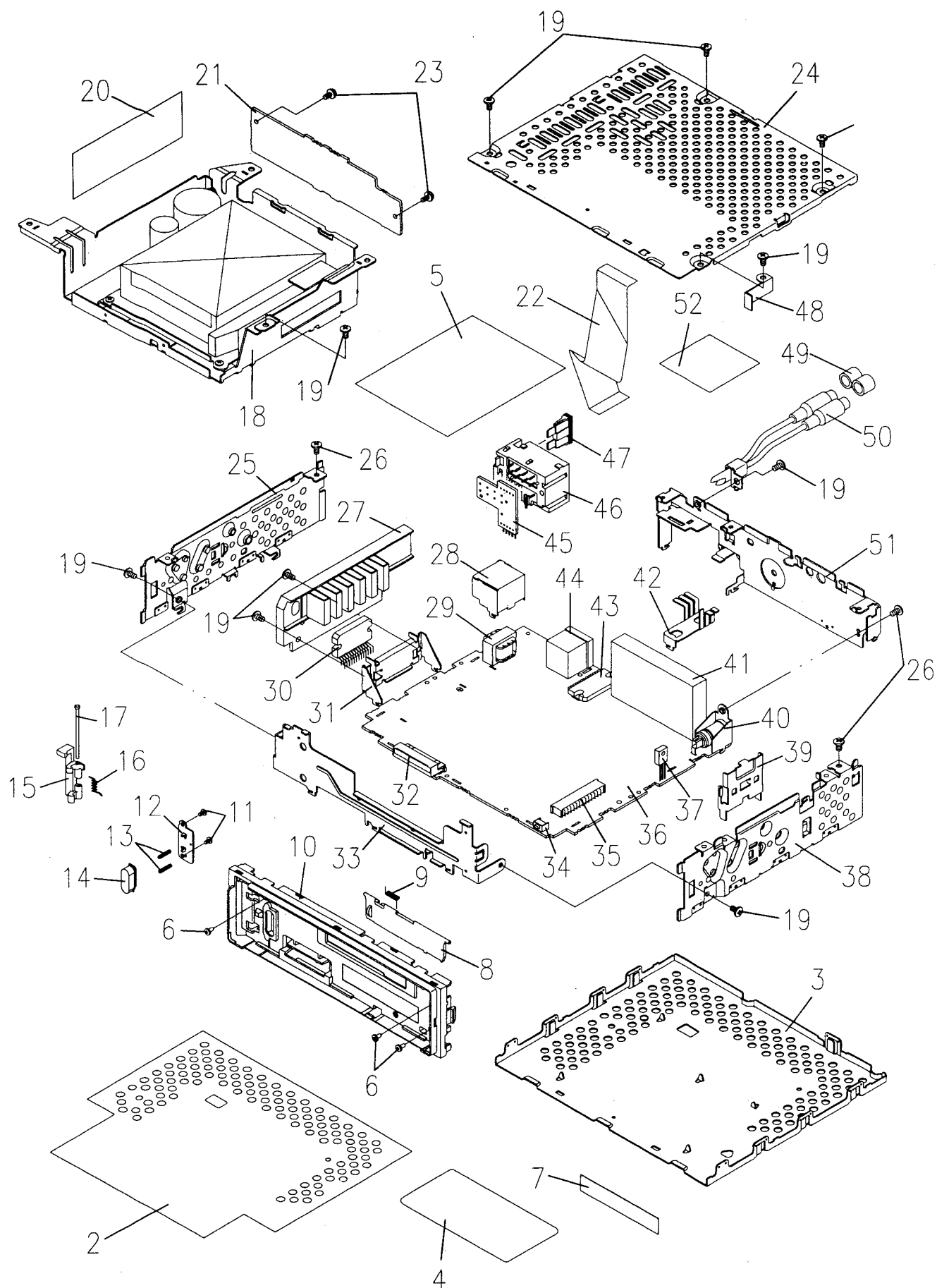


NO.	PARTS NO.	DESCRIPTION	Q'TY
2	347-5918-10	INSULATOR	1
3	304-0462-00	LOWER-CVR	1
4	286-9327-00	SETPLATE	1
5	307-0627-01	REAR-COVER	1
6	780-2004-01	SCREW	3
7	291-0067-00	STICKER	1
8	320-0560-00	DUSTPROOF-CVR	1
9	750-3343-22	SPRING	1
10	370-5806-01	ESCUTCHEON	1
11	716-0778-00	WAVE SCREW	2
12	331-2603-00	HOOK PLATE	1
13	750-3173-00	SPRING	2
14	382-5329-00	BUTTON	1
15	335-5968-00	HOOK	1
16	750-3219-00	SPRING	1
17	341-1627-00	SHAFT	1
18	930-4311-01	TAPE-MECH	1
19	731-3006-80	TAP-TIGHT SCREW	10
20	347-6056-00	FILM	1
21	039-1617-20	MECH PWB (WITHOUT COMPONENT)	1
22	816-2478-00	FLAT WIRE	1
23	716-0878-00	IT SCREW	2
24	303-0473-00	UPPER-CVR	1
25	305-0276-00	SIDE-COVER	1
26	714-3006-81	MACHINE SCREW	3

NO.	PARTS NO.	DESCRIPTION	Q'TY
27	313-1746-00	HEAT SINK	1
28	331-2820-00	SHIELD CASE	1
29	009-9006-20	CHOKE	1
30	051-2025-00	IC	1
31	331-2547-00	IC HOLDER	1
32	074-1217-00	OUTLET SOCKET	1
33	309-0722-01	FRONT PLATE	1
34	013-6100-00	SWITCH	1
35	074-0986-22	OUTLET SOCKET	1
36	039-1625-20	MAIN PWB (WITHOUT COMPONENT)	1
37	102-3420-50	TRANSISTOR	1
38	305-0277-00	SIDE-CVR	1
39	313-1747-00	HEAT SINK	1
40	092-9000-41	ANT-RECEPT	1
41	880-2087C	TUNER	1
42	313-1772-00	HEAT SINK	1
43	051-3261-00	IC	1
44	074-1126-10	OUTLET SOCKET	1
45	039-1400-20	ISO PWB (WITHOUT COMPONENT)	1
46	074-1115-00	OUTLET SOCKET	1
47	060-0057-56	AUTO FUSEET	1
48	331-2744-00	STOPPER	1
49	345-3799-00	RUBBER PART	2
50	855-5426-52	RCA PIN CORD	1

● ARX4670RB/RAX4671R(PE-1682E-B/E-C)

Main Section

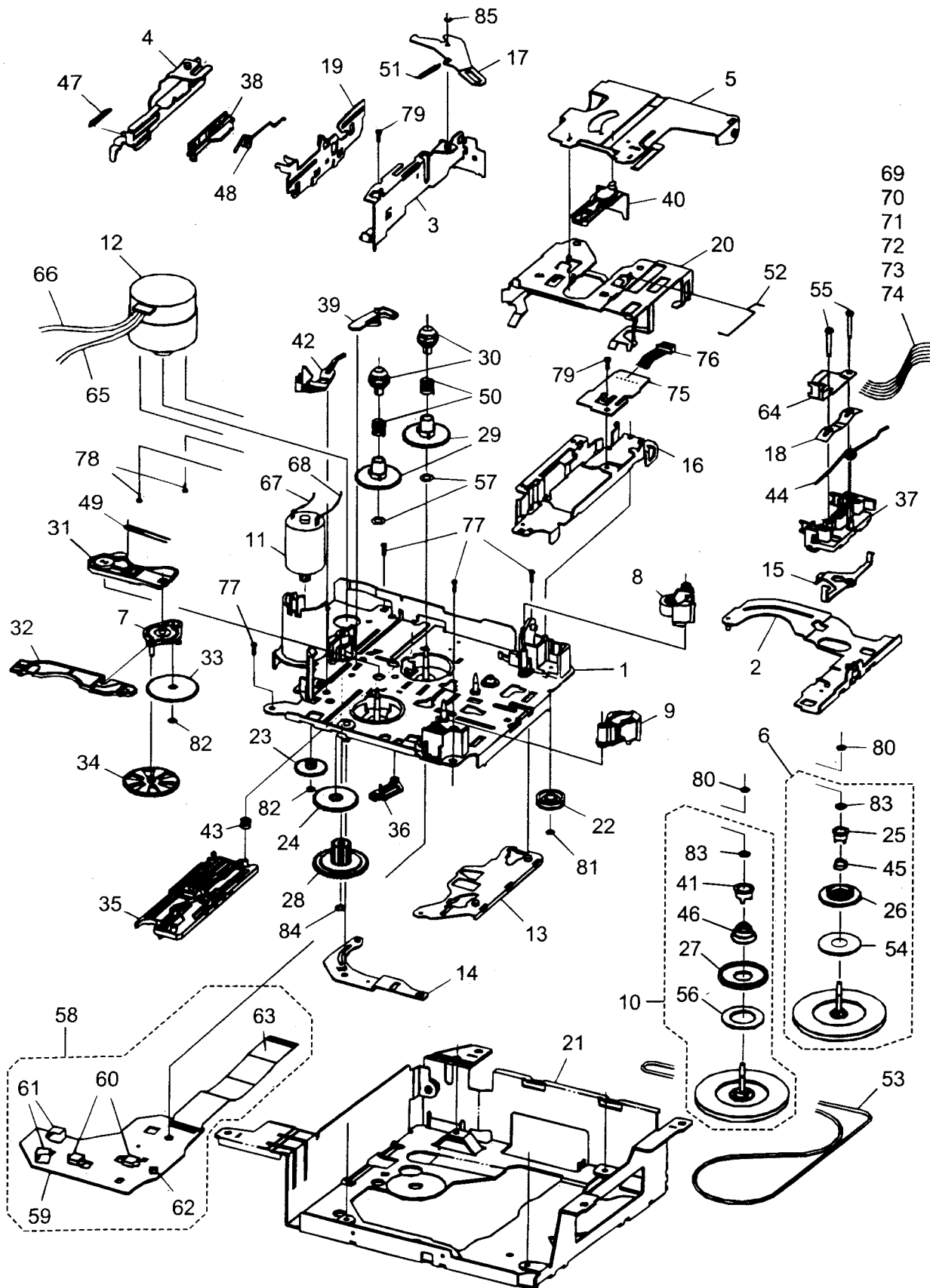


NO.	PARTS NO.	DESCRIPTION	Q'TY
2	347-5918-10	INSULATOR	1
3	304-0462-00	LOWER-CVR	1
4	286-9393-00	SETPLATE(PE-1682E-B)	1
	286-9395-00	SETPLATE(PE-1682E-C)	1
5	347-6326-20	SPACER	1
6	780-2004-01	SCREW	3
7	291-0067-00	STICKER	1
8	320-0560-00	DUSTPROOF-CVR	1
9	750-3343-22	SPRING	1
10	370-5806-01	ESCUTCHEON	1
11	716-0778-00	WAVE SCREW	2
12	331-2603-00	HOOK PLATE	1
13	750-3173-00	SPRING	2
14	382-5329-00	BUTTON	1
15	335-5968-00	HOOK	1
16	750-3219-00	SPRING	1
17	341-1627-00	SHAFT	1
18	930-4311-01	TAPE-MECH	1
19	731-3006-80	TAP-TIGHT SCREW	10
20	347-6056-00	FILM	1
21	039-1617-20	MECH PWB (WITHOUT COMPONENT)	1
22	816-2478-00	FLAT WIRE	1
23	716-0878-00	IT SCREW	2
24	303-0473-00	UPPER-CVR	1
25	305-0276-00	SIDE-COVER	1
26	714-3006-81	MACHINE SCREW	3
27	313-1746-00	HEAT SINK	1

NO.	PARTS NO.	DESCRIPTION	Q'TY
28	331-2820-00	SHIELD CASE	1
29	009-9006-20	CHOKE	1
30	051-2025-00	IC	1
31	331-2547-00	IC HOLDER	1
32	074-1217-00	OUTLET SOCKET	1
33	309-0722-01	FRONT PLATE	1
34	013-6100-00	SWITCH	1
35	074-0986-22	OUTLET SOCKET	1
36	039-1625-20	MAIN PWB (WITHOUT COMPONENT)	1
37	102-3420-50	TRANSISTOR	1
38	305-0277-00	SIDE-CVR	1
39	313-1747-00	HEAT SINK	1
40	092-9000-41	ANT-RECEPT	1
41	880-2087C	TUNER	1
42	313-1772-00	HEAT SINK	1
43	051-3261-00	IC	1
44	074-1126-10	OUTLET SOCKET	1
45	039-1400-20	ISO PWB (WITHOUT COMPONENT)	1
46	074-1115-00	OUTLET SOCKET	1
47	060-0057-56	AUTO FUSEET	1
48	331-2744-00	STOPPER	1
49	345-3799-00	RUBBER PART	2
50	855-5426-52	RCA PIN CORD	1
51	307-0627-01	REAR-COVER	1
52	291-0083-00	STICKER	1

■ EXPLODED VIEW · PATRS LIST:

Tape mechanism section 930-4311-01



NO.	PARTS NO.	DESCRIPTION	QTY
1	— — —	MAIN CHASSIS ASSY-SPH	1
2	658-0224-01	SLIDE CHASSIS ASSY	1
3	658-0224-02	SIDE BKT ASSY	1
4	658-0224-03	EJECT CAM LIMITER ASSY	1
5	658-0224-04	CASSETTE HANGER ASSY	1
6	658-0223-05	FLYWHEEL ASSY F	1
7	658-0224-05	GEAR BASE ASSY	1
8	658-0224-06	PINCH ARM F ASSY	1
9	658-0224-07	PINCH ARM R ASSY	1
10	658-0223-09	FLYWHEEL ASSY R	1
11	658-0224-08	SUB MOTOR ASSY	1
12	658-0223-11	MAIN MOTOR ASSY	1
13	658-0224-09	DIRECTION PLATE	1
14	658-0224-10	DIRECTION LINK	1
15	658-0224-11	PINCH SPG ARM	1
16	658-0224-12	CASSETTE GUIDE	1
17	658-0224-13	LOAD ARM	1
18	658-0223-17	HEAD SUPPORT SPG	1
19	658-0224-14	EJECT CAM PLATE	1
20	658-0224-15	CASSETTE HOLDER	1
21	658-0223-20	BOTTOM PLATE	1
22	658-0223-21	IDLE PULLEY(A1)	1
23	658-0224-17	REDUCTION GEAR A	1
24	658-0224-18	REDUCTION GEAR B	1
25	— — —	SPG HOLDER F	1
26	— — —	FRICTION GEAR PLAY	1
27	— — —	FRICTION GEAR FF	1
28	658-0224-19	MODE GEAR	1
29	658-0224-20	REEL SPINDLE	2
30	658-0224-21	REEL DRIVER	2
31	658-0224-22	GEAR BASE ARM	1
32	658-0224-23	GEAR BASE LINK	1
33	658-0224-24	TAKE UP GEAR	1
34	658-0224-25	REFLECTOR GEAR	1
35	658-0224-26	MODE RACK	1
36	658-0224-27	MODE SW ACTUATER	1
37	658-0224-28	TAPE GUIDE	1
38	658-0224-29	LOAD RACK	1
39	658-0224-30	RACK LINK	1
40	658-0224-31	CASSETTE CATCH	1
41	— — —	SPG HOLDER R	1
42	658-0224-32	TAPE DETECTOR	1
43	658-0223-38	RACK COLLAR	1
44	658-0223-39	PINCH ARM SPG	1
45	— — —	TU SPG	1

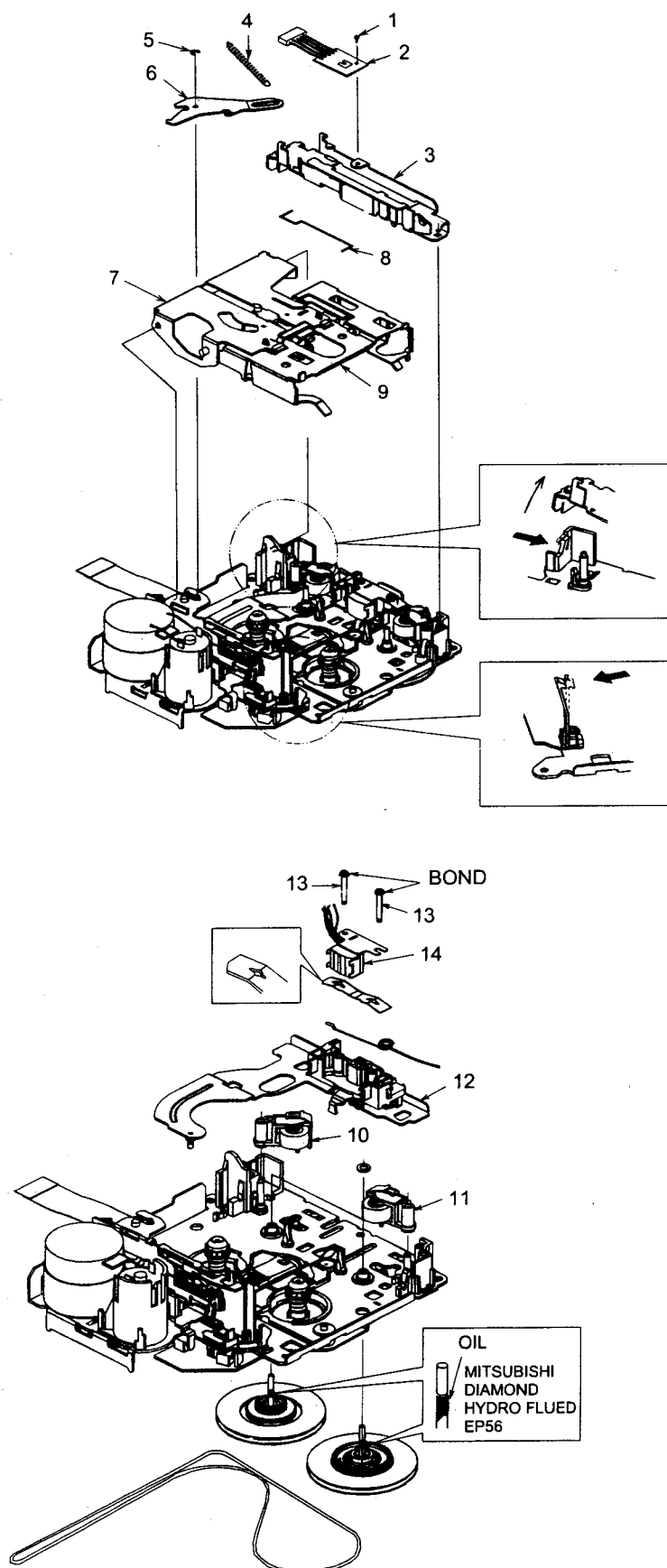
NO.	PARTS NO.	DESCRIPTION	QTY
46	— — —	FF SPG	1
47	658-0223-40	EJECT CAM PLATE SPG	1
48	658-0223-41	HOLDER CUSHION SPG	1
49	658-0223-42	GEAR BASE SPG	1
50	658-0223-43	REEL DRIVER SPG	2
51	658-0223-44	LOAD ARM SPG	1
52	658-0223-45	HOLDER STABILIZER SPG	1
53	658-0223-46	BELT	1
54	— — —	FELT	1
55	658-0223-47	AZIMUTH SCREW	2
56	— — —	FELT	1
57	658-0223-48	REEL WASHER	2
58	— — —	REEL PWB ASSY (WITH COMPONENT)	1
59	658-0224-33	REEL PWB (WITHOUT COMPONENT)	1
60	658-0224-34	SW (ESE22MH2L)	2
61	658-0224-35	SW (SPPB 64)	2
62	658-0224-36	PHOTO SENSOR (ON2170-QR FS)	1
63	658-0224-37	FLAT CABLE 11P-C	1
64	658-0223-54	HEAD (P-5544-CD)	1
65	— — —	MAIN MOTOR WIRE BLACK	1
66	— — —	MAIN MOTOR WIRE RED	1
67	— — —	SUB MOTOR WIRE ORANGE	1
68	— — —	SUB MOTOR WIRE BROWN	1
69	— — —	HEAD WIRE BLACK	1
70	— — —	HEAD WIRE BROWN	1
71	— — —	HEAD WIRE RED	1
72	— — —	HEAD WIRE ORANGE	1
73	— — —	HEAD WIRE YELLOW	1
74	— — —	HEAD WIRE WHITE	1
75	658-0224-38	HEAD PWB (WIHTOUT COMPONENT)	1
76	658-0224-39	JOINT WIRE ASSY 6P	1
77	658-0223-57	SCREW (M2.6×4)	4
78	658-0223-58	SCREW (M2×2.5)	2
79	658-0223-59	SCREW (M2×3.5)	2
80	658-0223-60	WASHER (1.6×3.2)	2
81	658-0223-61	WASHER (1.2×3.2)	1
82	658-0223-62	WASHER (1.5×3.2)	2
83	658-0223-63	WASHER (2.1×4.0)	2
84	658-0223-64	WASHER (2.1×4.0)	1
85	658-0223-65	E-RING	1

■ DISASSEMBLY AND ASSEMBLY PROCEDURES

Tape mechanism section 930-4311-01

Note: Follow the disassembly procedures in the numerical order given.

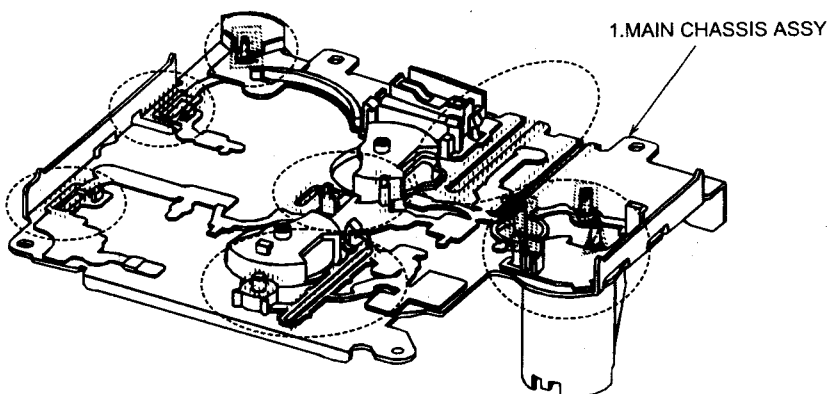
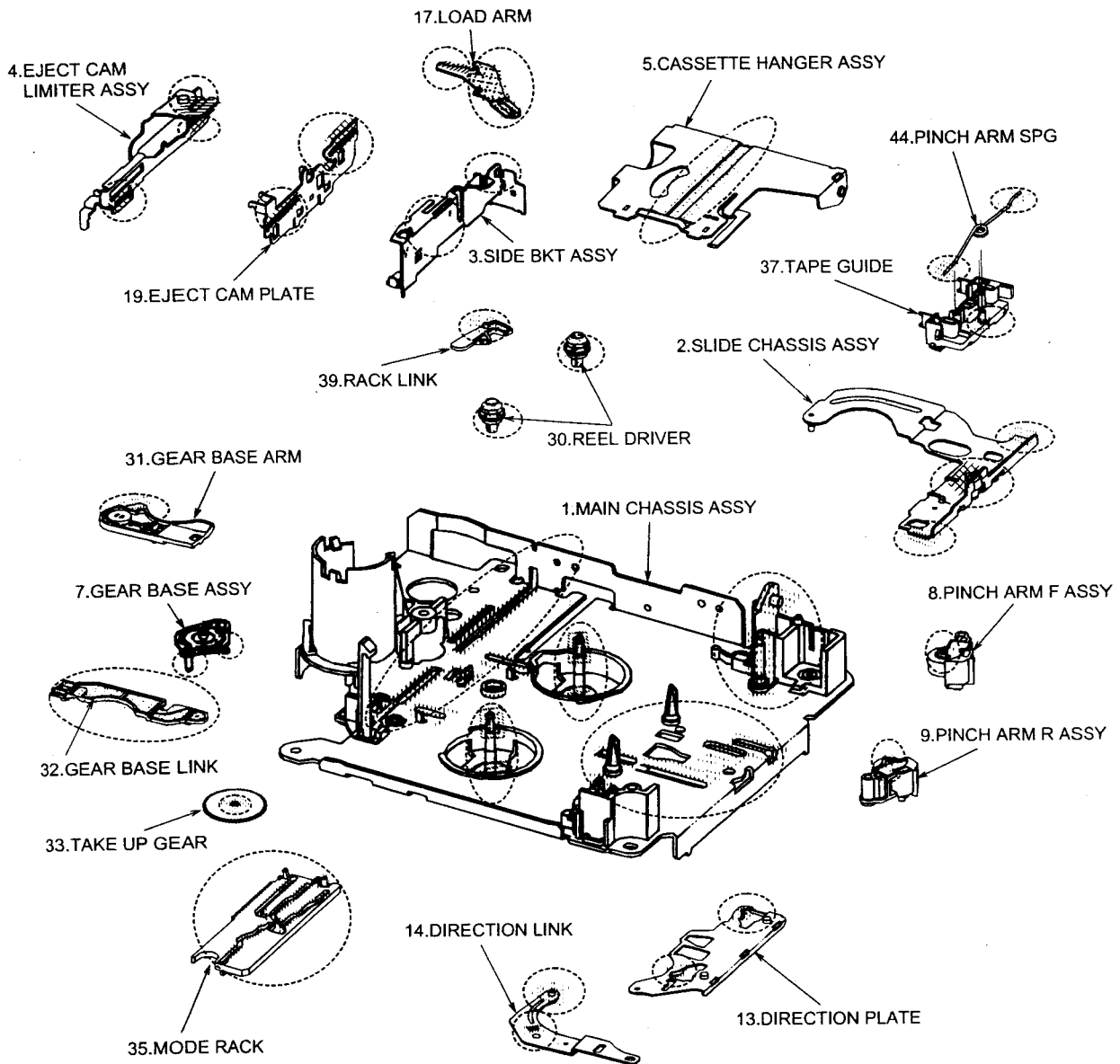
Cassette holder section



POINT FOR GREASING

Tape mechanism section 930-4311-01

Grease on the points marked by < ≡ ≧



■ ELECTRICAL PARTS LIST

Main PWB section (B1)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 201	051-1819-50	TDA7479	D 605	001-0466-01	S5688G	C 202	176-4701-00	50V 47PF
IC 202	051-0350-55	NJM4558	D 606	001-0466-01	S5688G	C 203	176-3311-00	50V 330PF
IC 301	051-3261-00	BA4906	D 607	001-0466-01	S5688G	C 204	183-2253-62	50V 2.2 μ F
IC 501	051-5016-90	TDA7404	D 608	001-0466-01	S5688G	C 205	183-1073-22	10V 100 μ F
IC 601	051-2025-00	TDA7386	D 609	001-0466-01	S5688G	C 206	176-5611-00	50V 560PF
IC 701	051-0160-01	HD74LS07	D 610	001-0516-00	MA111	C 207	178-4742-78	25V 0.47 μ F
IC 801	052-1912-01	uPD178018-557-3B9	D 701	001-0330-00	1SS119	C 208	176-8211-00	50V 820PF
Q 101	108-0669-00	2SK669	D 702	001-0330-00	1SS119	C 209	176-6811-00	50V 680PF
Q 102	102-2712-51	2SC2712GL	D 801	001-0330-00	1SS119	C 210	178-2232-78	25V 0.022 μ F
Q 103	102-2712-51	2SC2712GL	D 901	001-0330-00	1SS119	C 211	176-1007-00	50V 10PF
Q 104	102-2712-51	2SC2712GL	L 101	010-4007-00	AM COIL	C 212	178-2232-78	25V 0.022 μ F
Q 105	125-2004-02	RN1402	L 102	010-2230-14	2.2 μ H	C 213	178-1032-78	25V 0.01 μ F
Q 106	103-1306-00	2SD1306	L 103	010-2230-31	56 μ H	C 214	178-4742-78	25V 0.47 μ F
Q 201	125-2004-02	RN1402	L 104	010-2230-38	220 μ H	C 215	178-4742-78	25V 0.47 μ F
Q 202	125-0002-02	RN2402	L 105	010-2230-38	220 μ H	C 302	172-1031-10	50V 0.01 μ F
Q 203	125-2004-02	RN1402	L 201	010-2230-38	220 μ H	C 303	172-1031-10	50V 0.01 μ F
Q 301	102-2712-51	2SC2712GL	L 501	009-9006-50	CHOKES	C 307	183-1063-32	16V 10 μ F
Q 303	125-2004-02	RN1402	L 701	010-2230-26	22 μ H	C 308	178-1022-78	50V 1000PF
Q 304	102-2712-51	2SC2712GL	L 801	010-2230-38	220 μ H	C 310	183-1063-32	16V 10 μ F
Q 305	101-1237-00	2SB1237	X 201	061-3013-00	4.332MHz	C 311	178-1042-78	25V 0.1 μ F
Q 306	125-0002-02	RN2402	X 801	061-1064-00	4.5MHz	C 403	183-1073-22	10V 100 μ F
Q 307	125-0002-02	RN2402	C 101	176-1801-00	50V 18PF	C 404	182-1063-53	35V 10 μ F
Q 308	101-1243-00	2SB1243	C 102	178-1032-78	25V 0.01 μ F	C 452	178-1022-78	50V 1000PF
Q 309	125-2004-02	RN1402	C 103	178-1032-78	25V 0.01 μ F	C 501	178-1042-78	25V 0.1 μ F
Q 310	103-1858-00	2SD1858	C 104	178-1022-78	50V 1000PF	C 502	178-1042-78	25V 0.1 μ F
Q 402	125-0002-02	RN2402	C 105	183-1073-22	10V 100 μ F	C 503	178-1042-78	25V 0.1 μ F
Q 403	125-2004-06	RN1406	C 106	183-1073-22	10V 100 μ F	C 504	178-1042-78	25V 0.1 μ F
Q 404	125-2004-06	RN1406	C 107	183-1073-22	10V 100 μ F	C 505	183-1053-62	50V 1 μ F
Q 405	101-1243-00	2SB1243	C 108	176-1011-00	50V 100PF	C 506	183-1053-62	50V 1 μ F
Q 406	102-3420-00	2SC3420	C 109	176-1011-00	50V 100PF	C 507	178-2222-78	50V 2200PF
Q 501	125-4001-00	XN1504	C 110	178-4732-78	25V 0.047 μ F	C 508	178-2222-78	50V 2200PF
Q 601	125-0002-01	RN2401	C 111	176-1011-00	50V 100PF	C 509	182-4763-33	16V 47 μ F
Q 701	125-2004-02	RN1402	C 112	176-3311-00	50V 330PF	C 510	183-1063-52	35V 10 μ F
Q 702	100-1162-00	2SA1162	C 113	178-1022-78	50V 1000PF	C 511	183-1063-52	35V 10 μ F
Q 703	125-2004-02	RN1402	C 114	183-1053-62	50V 1 μ F	C 514	182-1063-53	35V 10 μ F
Q 901	100-1162-00	2SA1162	C 115	183-4753-62	50V 4.7 μ F	C 515	178-1032-78	25V 0.01 μ F
D 201	001-0330-00	1SS119	C 116	176-1007-00	50V 10PF	C 516	178-1022-78	50V 1000PF
D 202	001-0330-00	1SS119	C 117	178-2232-78	25V 0.022 μ F	C 601	172-2231-10	50V 0.022 μ F
D 301	001-0376-41	MTZ7.5JB	C 118	178-2232-78	25V 0.022 μ F	C 602	042-0447-00	16V 2200 μ F
D 302	001-0376-26	MTZ4.7JB	C 119	178-3332-78	25V 0.033 μ F	C 603	183-3353-62	50V 3.3 μ F
D 303	001-0466-01	S5688G	C 120	178-5622-78	50V 5600PF	C 604	178-4742-78	25V 0.47 μ F
D 304	001-0466-01	S5688G	C 121	178-6822-78	50V 6800PF	C 605	183-4763-32	16V 47 μ F
D 305	001-0330-00	1SS119	C 122	042-9002-01	50V 3.3 μ F(LN)	C 606	182-1046-63	50V 0.1 μ F
D 306	001-0330-00	1SS119	C 123	178-1032-78	25V 0.01 μ F	C 607	182-1046-63	50V 0.1 μ F
D 310	001-0376-47	MTZ9.1JB	C 124	183-4743-62	50V 0.47 μ F	C 608	182-1046-63	50V 0.1 μ F
D 395	001-0330-00	1SS119	C 125	178-1232-78	25V 0.012 μ F	C 609	182-1046-63	50V 0.1 μ F
D 396	001-0466-01	S5688G	C 126	178-1542-78	25V 0.15 μ F	C 610	183-1063-52	35V 10 μ F
D 402	001-0376-47	MTZ9.1JB	C 128	178-4742-78	25V 0.47 μ F	C 701	178-4732-78	25V 0.047 μ F
D 601	001-0592-00	RM4Z	C 129	183-1073-22	10V 100 μ F	C 801	176-2201-00	50V 22PF
D 602	001-0466-01	S5688G	C 130	176-1011-00	50V 100PF	C 802	176-2201-00	50V 22PF
D 603	001-0466-01	S5688G	C 131	183-1063-32	16V 10 μ F	C 803	178-4732-78	25V 0.047 μ F
D 604	001-0466-01	S5688G	C 201	176-8201-00	50V 82PF	C 804	178-4732-78	25V 0.047 μ F

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 805	178-1032-78	25V 0.01 μ F	R 306	117-4721-10	1/10W 4.7K Ω	R 607	111-4721-91	1/4WSS 4.7K Ω
C 806	182-4763-33	16V 47 μ F	R 307	117-4721-10	1/10W 4.7K Ω	R 608	116-4721-10	1/8W 4.7K Ω
C 807	183-1073-22	10V 100 μ F	R 308	111-3321-91	1/4WSS 3.3K Ω	R 609	117-4721-10	1/10W 4.7K Ω
C 808	178-1032-78	25V 0.01 μ F	R 309	117-1031-10	1/10W 10K Ω	R 701	117-4721-10	1/10W 4.7K Ω
C 809	172-1031-10	50V 0.01 μ F	R 310	111-5611-81	1/2WS 560 Ω	R 702	117-4721-10	1/10W 4.7K Ω
C 810	178-4732-78	25V 0.047 μ F	R 311	117-1031-10	1/10W 10K Ω	R 703	117-1021-10	1/10W 1K Ω
C 811	178-1032-78	25V 0.01 μ F	R 312	117-1031-10	1/10W 10K Ω	R 704	117-4721-10	1/10W 4.7K Ω
R 101	117-1021-10	1/10W 1K Ω	R 313	117-4721-10	1/10W 4.7K Ω	R 705	117-1021-10	1/10W 1K Ω
R 102	117-2731-10	1/10W 27K Ω	R 314	111-4711-81	1/2WS 470 Ω	R 706	117-4721-10	1/10W 4.7K Ω
R 103	117-2221-10	1/10W 2.2K Ω	R 401	117-4731-10	1/10W 47K Ω	R 707	117-1021-10	1/10W 1K Ω
R 104	117-4721-10	1/10W 4.7K Ω	R 403	117-4731-10	1/10W 47K Ω	R 711	117-4731-10	1/10W 47K Ω
R 105	117-1021-10	1/10W 1K Ω	R 405	117-1041-10	1/10W 100K Ω	R 714	117-1031-10	1/10W 10K Ω
R 106	117-6821-10	1/10W 6.8K Ω	R 406	111-4711-91	1/4WSS 470 Ω	R 715	117-2231-10	1/10W 22K Ω
R 107	117-3311-10	1/10W 330 Ω	R 411	111-1221-91	1/4WSS 1.2K Ω	R 803	117-1031-10	1/10W 10K Ω
R 109	117-1021-10	1/10W 1K Ω	R 412	117-4731-10	1/10W 47K Ω	R 810	117-2231-10	1/10W 22K Ω
R 112	116-3311-10	1/8W 330 Ω	R 413	117-1041-10	1/10W 100K Ω	R 812	117-2221-10	1/10W 2.2K Ω
R 113	117-6821-10	1/10W 6.8K Ω	R 501	117-4721-10	1/10W 4.7K Ω	R 813	117-2221-10	1/10W 2.2K Ω
R 114	117-1021-10	1/10W 1K Ω	R 502	117-4721-10	1/10W 4.7K Ω	R 818	111-4731-91	1/4WSS 47K Ω
R 115	117-2221-10	1/10W 2.2K Ω	R 503	117-1021-10	1/10W 1K Ω	R 819	117-1041-10	1/10W 100K Ω
R 116	117-1021-10	1/10W 1K Ω	R 504	117-1021-10	1/10W 1K Ω	R 820	117-1041-10	1/10W 100K Ω
R 117	117-5631-10	1/10W 56K Ω	R 505	117-1031-10	1/10W 10K Ω	R 823	117-1031-10	1/10W 10K Ω
R 118	117-1011-10	1/10W 100 Ω	R 506	117-1031-10	1/10W 10K Ω	R 824	117-1031-10	1/10W 10K Ω
R 119	117-5631-10	1/10W 56K Ω	R 507	117-3311-10	1/10W 330 Ω	R 830	117-1031-10	1/10W 10K Ω
R 201	117-2221-10	1/10W 2.2K Ω	R 508	117-3311-10	1/10W 330 Ω	R 831	117-4731-10	1/10W 47K Ω
R 202	117-3321-10	1/10W 3.3K Ω	R 515	111-4721-91	1/4WSS 4.7K Ω	R 832	117-4731-10	1/10W 47K Ω
R 203	117-3321-10	1/10W 33K Ω	R 516	111-4721-91	1/4WSS 4.7K Ω	R 901	117-1031-10	1/10W 10K Ω
R 204	117-1031-10	1/10W 10K Ω	R 517	111-4721-91	1/4WSS 4.7K Ω	R 902	117-4721-10	1/10W 4.7K Ω
R 205	117-1231-10	1/10W 12K Ω	R 518	111-4721-91	1/4WSS 4.7K Ω	R 903	117-4731-10	1/10W 47K Ω
R 206	117-1041-10	1/10W 100K Ω	R 519	111-4721-91	1/4WSS 4.7K Ω	VR 101	012-4738-13	470K Ω
R 207	117-2211-10	1/10W 220 Ω	R 520	111-4721-91	1/4WSS 4.7K Ω	SUP 101	060-0122-91	DSP-201
R 301	117-4731-10	1/10W 47K Ω	R 524	111-1031-91	1/4WSS 10K Ω	CN 101	074-1217-00	OUTLET SOCKET
R 302	117-2231-10	1/10W 22K Ω	R 602	117-1031-10	1/10W 10K Ω	CN 102	074-1115-00	OUTLET SOCKET
R 303	117-2231-10	1/10W 22K Ω	R 604	117-1231-10	1/10W 12K Ω	CN 106	074-0986-22	OUTLET SOCKET
R 304	111-2231-91	1/4WSS 22K Ω	R 605	117-4721-10	1/10W 4.7K Ω	S 301	013-6100-00	SKHLLB(RESET)
R 305	117-2231-10	1/10W 22K Ω	R 606	111-4721-91	1/4WSS 4.7K Ω	FUSE	060-0057-56	10A

Switch PWB section (B2)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 101	051-6013-00	LC75854W	R 108	117-1241-10	1/10W 120K Ω	S 105	013-6001-50	SKQCAB
Q 101	100-1162-00	2SA1162	R 109	117-1011-10	1/10W 100 Ω	S 106	013-6001-50	SKQCAB
D 101	001-0529-29	MA8051M	R 110	117-1011-10	1/10W 100 Ω	S 107	013-6305-00	SKQMAH
D 102	001-0529-14	MA8030L	R 111	117-2731-10	1/10W 27K Ω	S 108	013-6001-50	SKQCAB
D 103	001-0529-41	MA8075M	R 112	117-3311-10	1/10W 330 Ω	S 109	013-6001-50	SKQCAB
D 104	001-7046-00	NSPW310BS	R 113	117-3311-10	1/10W 330 Ω	S 110	013-6001-50	SKQCAB
C 101	178-4732-78	25V 0.047 μ F	R 114	117-1021-10	1/10W 1K Ω	S 111	013-6305-00	SKQMAH
C 102	178-4732-78	25V 0.047 μ F	R 115	117-1011-10	1/10W 100 Ω	S 112	013-6305-00	SKQMAH
C 103	178-1022-78	50V 1000PF	CN 101	076-0615-00	PLUG	S 113	013-6305-00	SKQMAH
C 104	042-0416-51	6.3V 10 μ F	PL 101	017-0444-00	14V 50mA	S 114	013-6001-50	SKQCAB
C 105	042-0416-51	6.3V 10 μ F	PL 103	017-0444-00	14V 50mA	S 115	013-6001-50	SKQCAB
R 101	117-2221-10	1/10W 2.2K Ω	PL 103	017-0444-00	14V 50mA	S 116	013-6305-00	SKQMAH
R 102	117-2221-10	1/10W 2.2K Ω	PL 104	017-0444-00	14V 50mA	S 117	013-6305-00	SKQMAH
R 103	117-2221-10	1/10W 2.2K Ω	PL 105	017-0444-00	14V 50mA	S 119	013-6001-50	SKQCAB
R 104	117-4731-10	1/10W 47K Ω	S 101	013-6001-50	SKQCAB	S 120	013-6305-00	SKQMAH
R 105	117-1031-10	1/10W 10K Ω	S 102	013-6305-00	SKQMAH	S 121	016-9900-66	SIM-026MT
R 106	117-3311-10	1/10W 330 Ω	S 103	013-6305-00	SKQMAH	IR 101	060-4008-00	RS-171
R 107	117-3921-10	1/10W 3.9K Ω	S 104	013-6001-50	SKQCAB			

Mech PWB section (B3)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC 1	051-6048-08	BA6219BFP	C 16	183-1043-62	50V 0.1 μ F	R 2	117-2231-10	1/10W 22K Ω
IC 2	051-1546-90	BA3430FS	C 17	183-4753-52	35V 4.7 μ F	R 20	117-1531-10	1/10W 15K Ω
Q 1	102-2412-00	2SC2412	C 18	183-4743-62	50V 0.47 μ F	R 21	117-1031-10	1/10W 10K Ω
D 1	001-0529-25	MA8047L	C 19	183-2263-32	16V 22 μ F	R 22	117-1031-10	1/10W 10K Ω
C 1	178-1042-78	25V 0.1 μ F	C 20	178-1042-78	25V 0.1 μ F	R 23	117-8211-10	1/10W 820 Ω
C 2	178-2242-78	25V 0.22 μ F	C 21	178-1042-78	25V 0.1 μ F	R 24	117-1811-10	1/10W 180 Ω
C 3	183-4763-32	16V 47 μ F	C 22	178-2242-78	25V 0.22 μ F	R 25	117-2231-10	1/10W 22K Ω
C 4	176-3311-00	50V 330PF	C 23	178-2242-78	25V 0.22 μ F	R 26	117-3391-10	1/10W 3.3 Ω
C 5	176-3311-00	50V 330PF	R 1	117-2221-10	1/10W 2.2K Ω	R 27	117-3301-10	1/10W 33 Ω
C 6	176-3311-00	50V 330PF	R 10	117-1241-10	1/10W 120K Ω	R 3	117-2231-10	1/10W 22K Ω
C 7	176-3311-00	50V 330PF	R 11	117-1241-10	1/10W 120K Ω	R 4	117-6831-10	1/10W 68K Ω
C 8	183-6863-22	10V 68 μ F	R 12	117-1241-10	1/10W 120K Ω	R 5	117-5631-10	1/10W 56K Ω
C 9	183-6863-22	10V 68 μ F	R 13	117-1011-10	1/10W 100 Ω	R 6	117-3311-10	1/10W 330 Ω
C 10	172-1231-10	50V 0.012 μ F	R 14	117-1011-10	1/10W 100 Ω	R 7	117-2221-10	1/10W 2.2K Ω
C 11	172-1231-10	50V 0.012 μ F	R 15	117-3341-10	1/10W 330K Ω	R 8	114-1001-21	2WSS 10 Ω
C 12	183-4763-32	16V 47 μ F	R 16	117-3341-10	1/10W 330K Ω	R 9	117-1241-10	1/10W 120K Ω
C 13	183-4753-52	35V 4.7 μ F	R 17	117-1131-10	1/10W 11K Ω	CN 1	074-0986-11	OUTLET SOCKET
C 14	183-4753-52	35V 4.7 μ F	R 18	117-1131-10	1/10W 11K Ω	CN 2	076-0351-06	PLUG
C 15	176-5611-00	50V 560PF	R 19	117-1531-10	1/10W 15K Ω			

ISO PWB section (B4)

REF No.	PART No.	DESCRIPTION
CN 102	074-1115-00	OUTLET SOCKET

■ ELECTRICAL PARTS LIST:

Tape mechanism section 930-4311-01

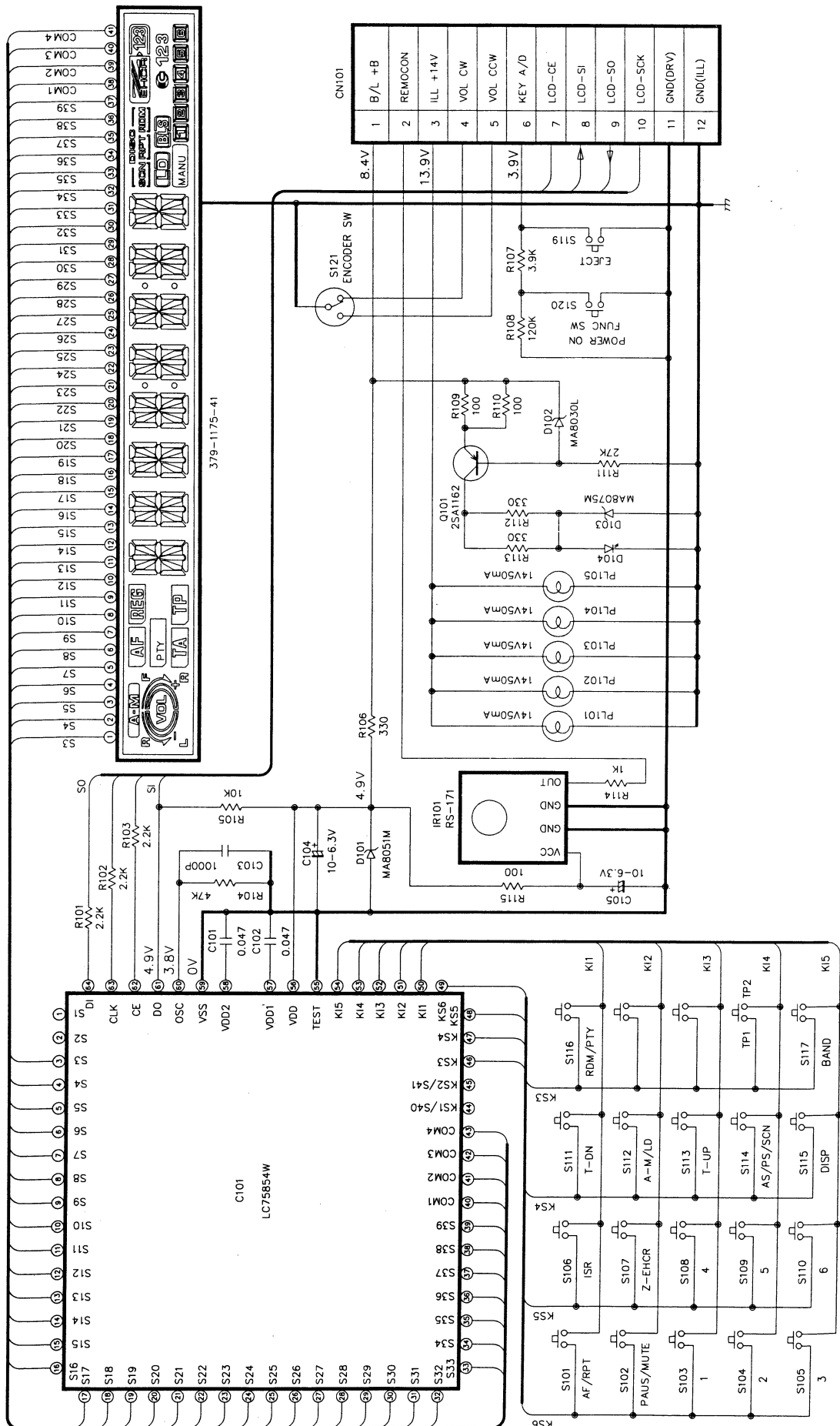
REEL PWB (B5) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
Q 1	658-0224-36	ON2170-QR	S 2	658-0224-34	ESE22MH2L	S 4	658-0224-35	SPPB 64
S 1	658-0224-35	SPPB 64	S 3	658-0224-34	ESE22MH2L		658-0224-37	FLAT CABLE 11P

HEAD PWB (B6) section

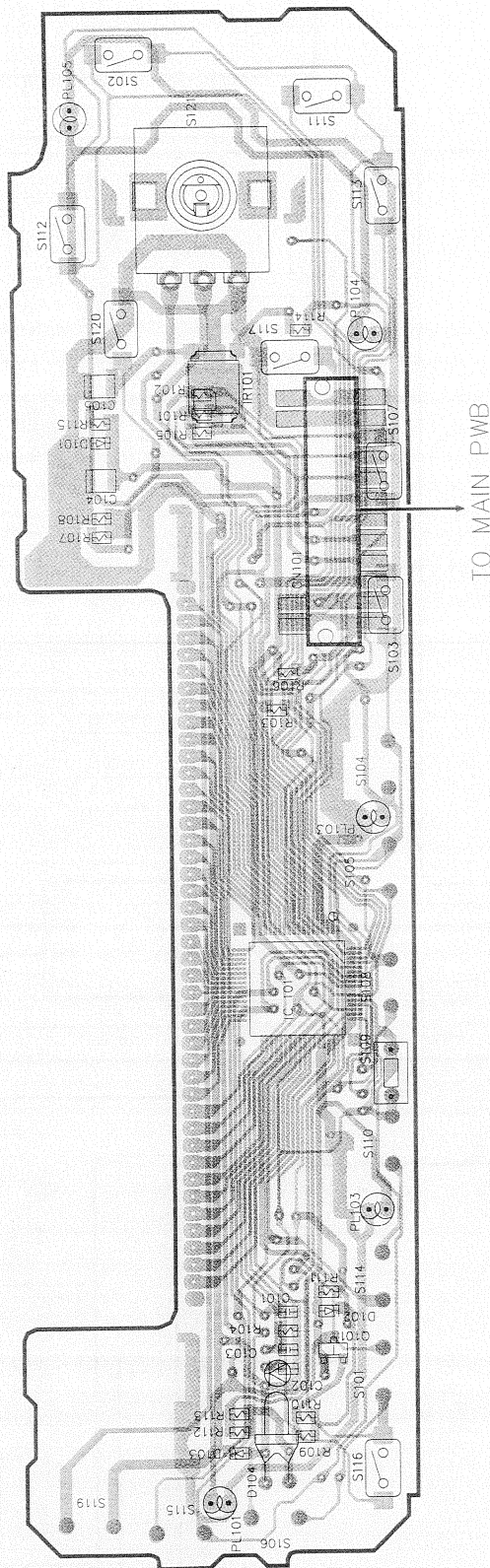
REF No.	PART No.	DESCRIPTION
J 1	658-0224-39	JOINT WIRE ASSY 6P

■ CIRCUIT DIAGRAM:
Switch PWB (B2) section

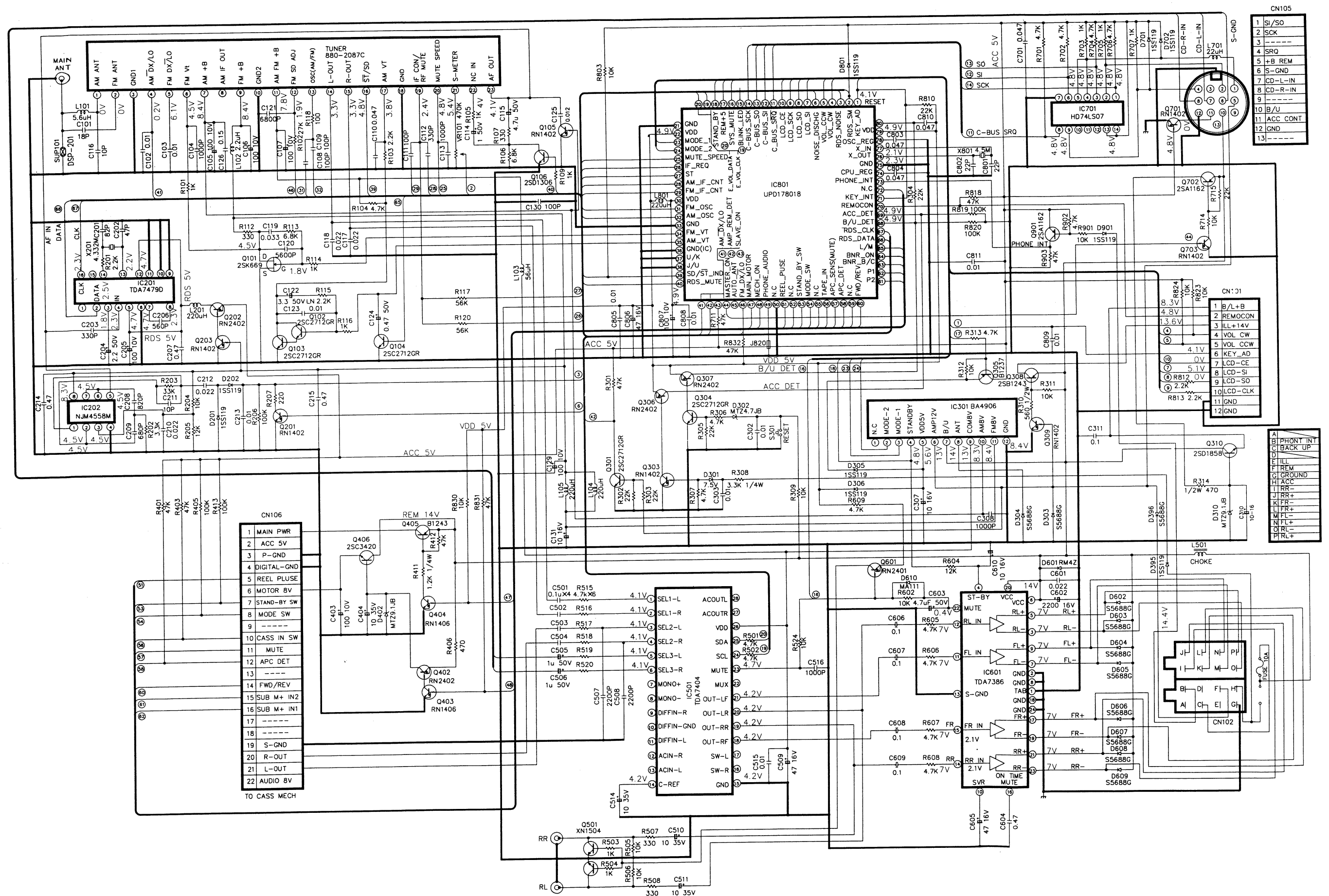


■ PRINTED WIRING BOARD:

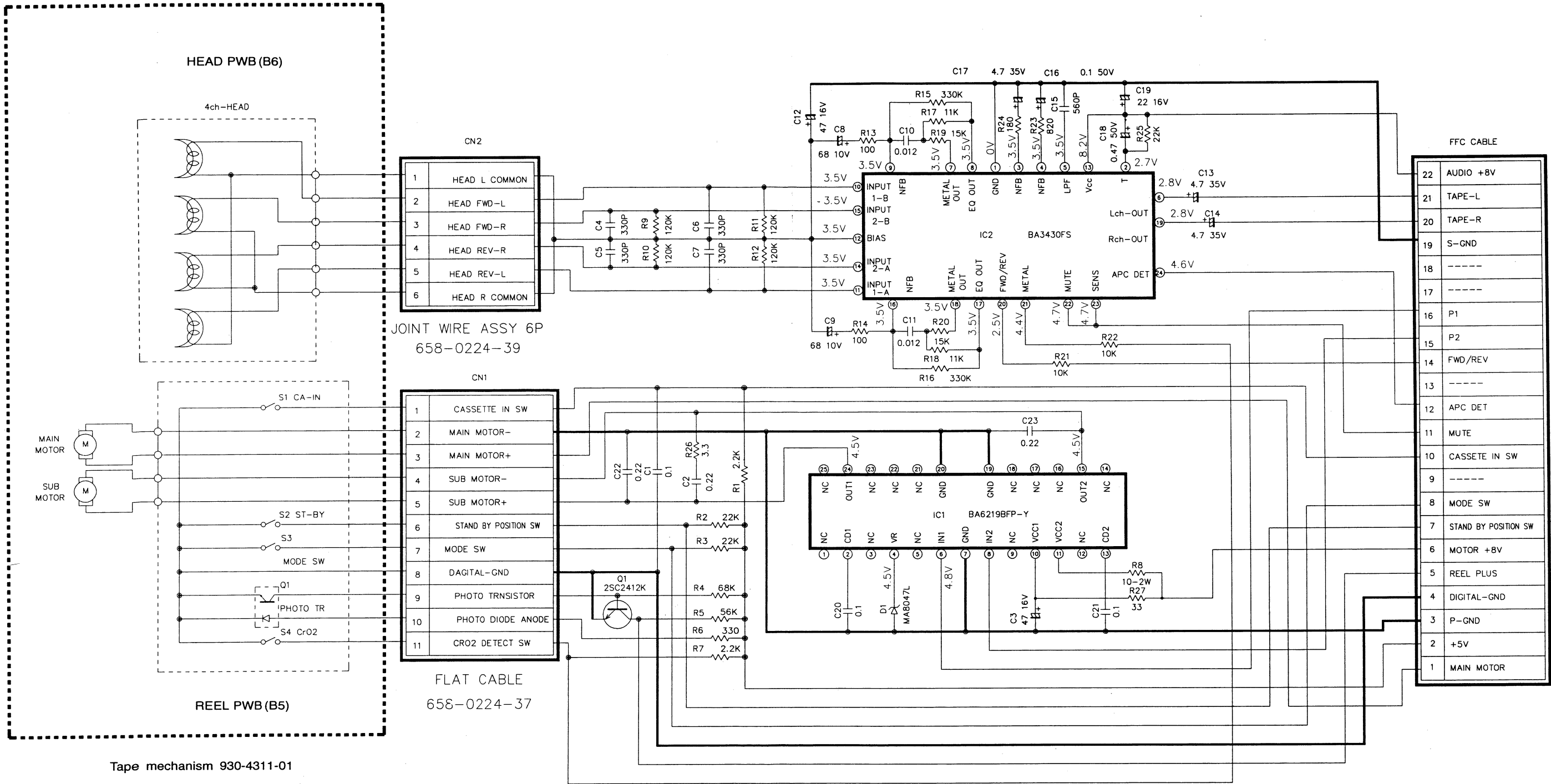
Switch PWB (B2) section



■ **CIRCUIT DIAGRAM:**
Main PWB (B1) section



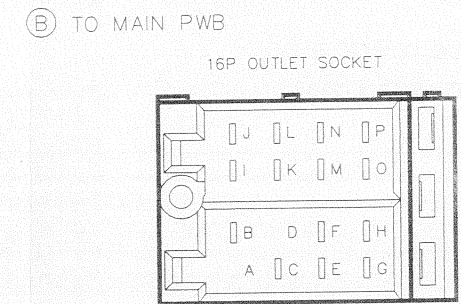
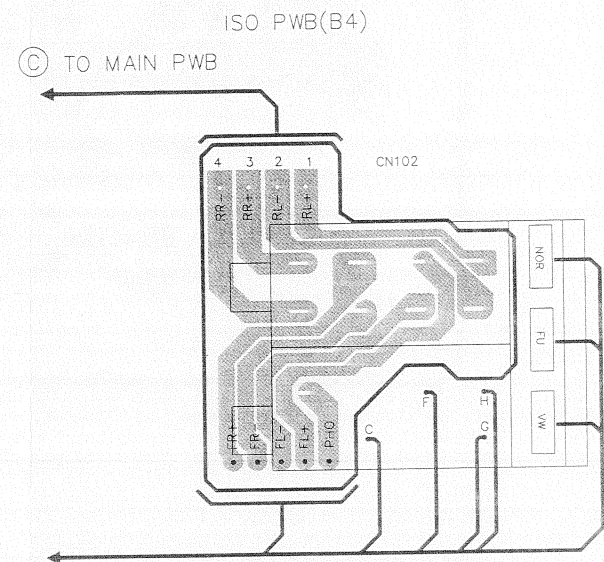
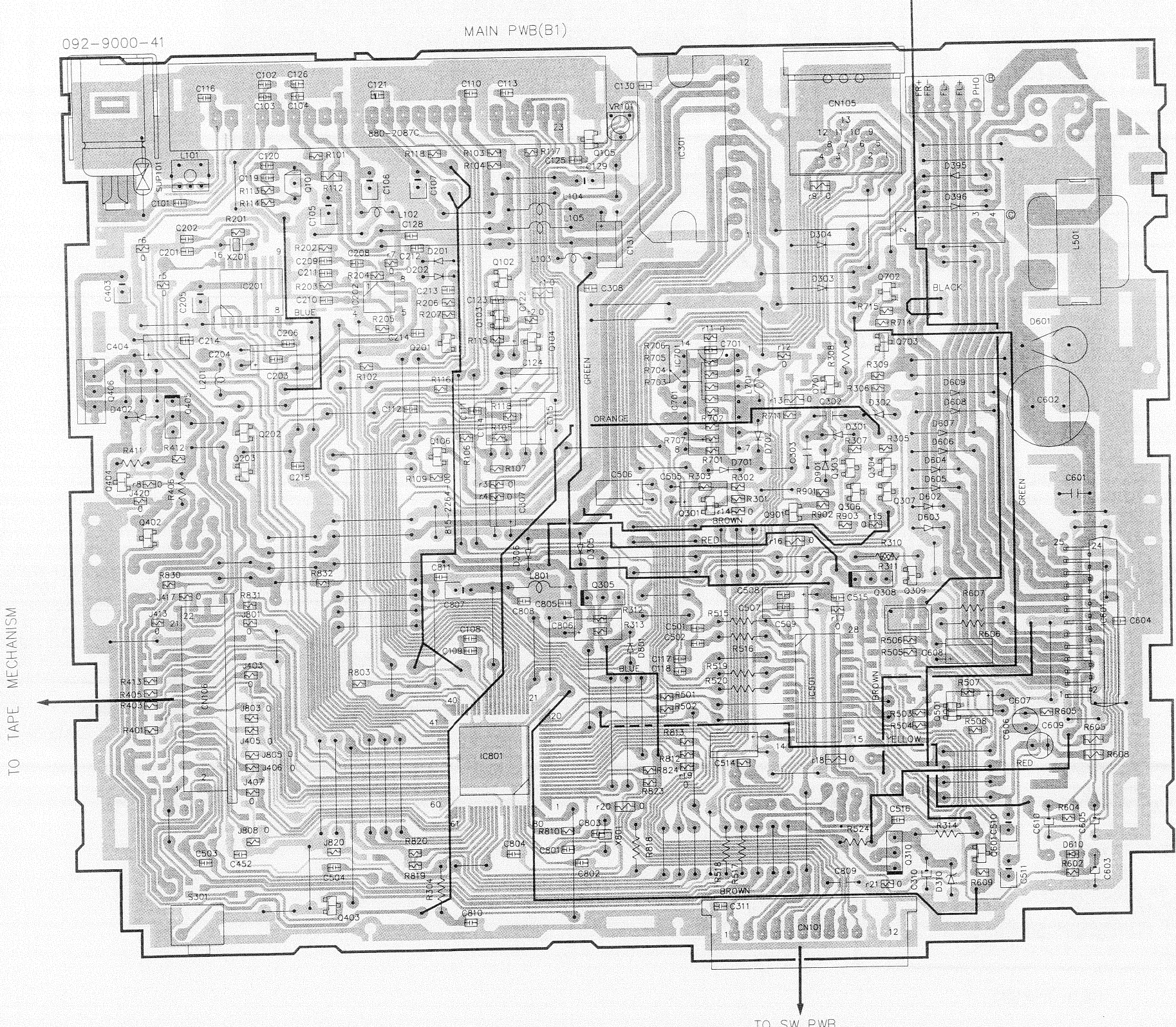
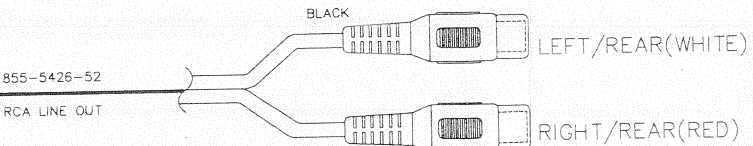
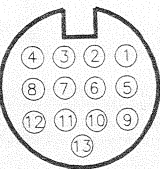
■ **CIRCUIT DIAGRAM:**
Mech PWB section (B3)



■ PRINTED WIRING BOARD:
ISO PWB (B4) section

C-BUS LINE	
CASE	SHIELD
6	S-GND
5	REM +B
4	SRQ
3	
2	SCK
1	SO/SI
PIN NO	NOTE

C-BUS LINE	
13	MASTE ON
12	GND
11	ACC-CONT
10	B/U
9	SLAVE ON
8	Rch-IN
7	Lch-IN
PIN NO	NOTE



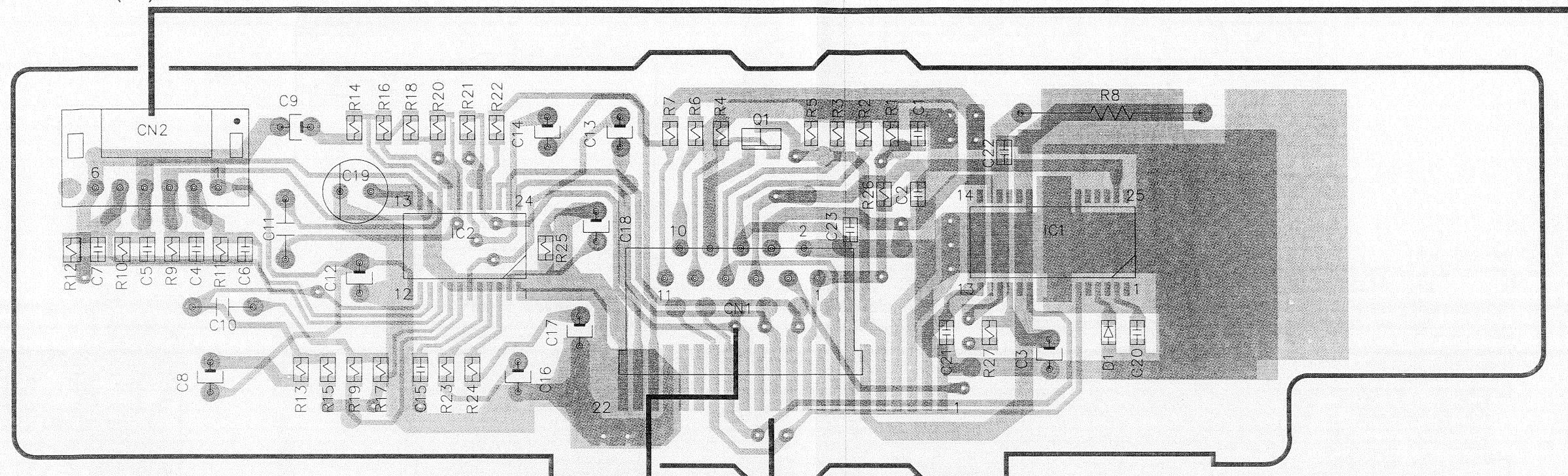
PIN NO.	DESCRIPTION
A	
B	PHONE MUTE
C	BACK UP
D	
E	ILLUMI
F	AUTO ANT
G	GND
H	ACC
I	SP-RR ⊖
J	SP-RR ⊕
K	SP-FR ⊖
L	SP-FR ⊕
M	SP-FL ⊖
N	SP-FL ⊕
O	SP-RL ⊖
P	SP-RL ⊕

TO TAPE MECHANISM

TO SW PWB

■ PRINTED WIRING BOARD:

Mech PWB section (B3)



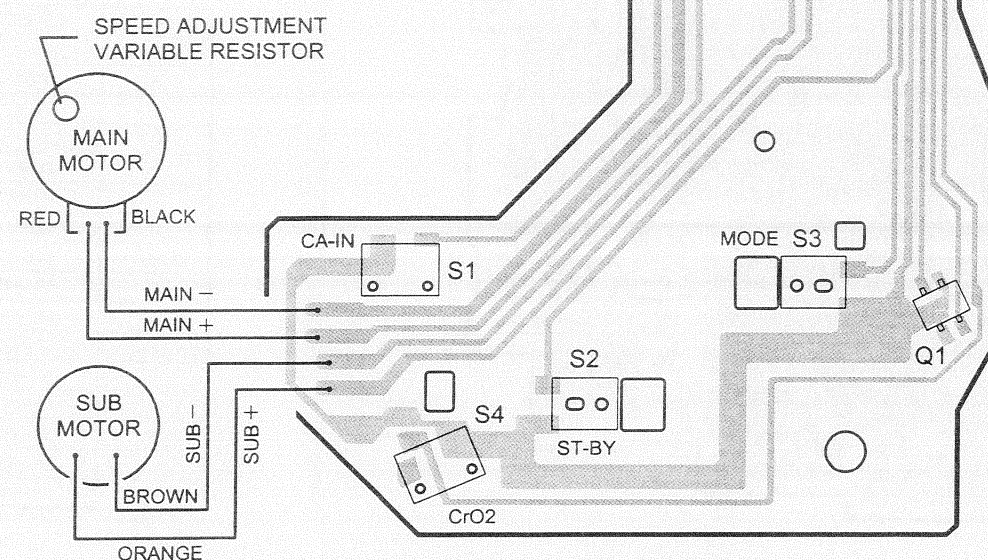
TO MAIN PWB

Tape mechanis
930-4311-01

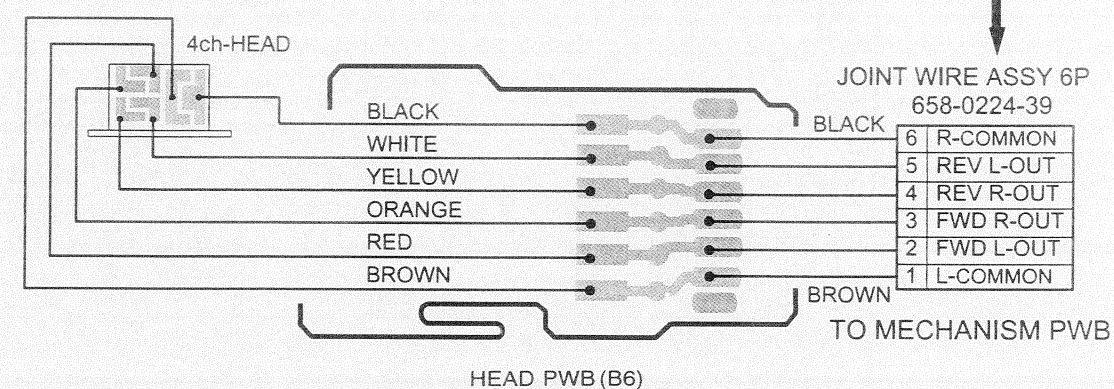
1	CASSETTE IN SW
2	MAIN MOTOR -
3	MAIN MOTOR +
4	SUB MOTOR -
5	SUB MOTOR +
6	STAND BY POSITION SW
7	MODE SW
8	DAGITAL-GND
9	PHOTO TRNSISTOR
10	PHOTO DIODE ANODE
11	CR02 DETECT SW

TO MECHANISM PWB

FLAT CABLE
658-0224-37



REEL PWB (B5)



HEAD PWB (B6)

TO MECHANISM PWB